PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal at the intersection of MD 256 (Deale Rd/Churchton Rd.) and MD 258 (Bay Front Rd) in Anne Arundel County, Maryland. MD 256 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA five (5) phase, full-traffic-actuated mode. There will be an exclusive/permissive left turn phase for the northbound movement of MD 256. The MD 256 through movements will operate concurrently. The MD 258 movement will operate alone. The commercial exit across from MD 258 will receive a "STEADY RED" indication at all times except when MD 258 has a "GREEN" indication at which time they will receive a "FLASHING RED" indication.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, and two 4-channel rack mounted time delay output loop detector amplifiers housed in a base mounted cabinet are to be installed at this location.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.					B. Equipment to be furnished and/or installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.					
Quantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description			
1	EA	818	27 ft. steelmast arm pole with 70 ft. mast arm [Note: four 2 in. x 90 in. anchor bolts].	Lump Sum	LS	108	Mobilization.			
1	EA	818	15 ft. steelpedestalpole with break away transformer base	Lump Sum	LS	104	Maintenance of traffic.			
,	LI	010	(Note: four 1 in. x 40 in. anchor bolts).	3	CY	205	Test pit excavation.			
1 EA		816	Standard S.H.A. traffic signal controller, base mounted cabinet, and two 4-channel loop detector amplifiers	Approx.	EA	811	Handhole.			
			[Note: Controller and cabinet shall be supplied by Econolite and delivered to the S.H.A. signal shop for wiring and testing.	3	EA		Micro-loop probe (set of 3) with 500 ft. lead-in cable.			
			Contact Mr. Ed Rodenhizer (410) 787-76501.	350	Republication of the second	815	Sawcut for signalloop detector.			
5	EA	814	12 in., one-way, three section (R,Y,G) black faced adjustable traffic signal head with mast arm mounting	950	S. A.	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.			
			hardware and tunnel visors.	110	hylu	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).			
1 EA 814	814	12 in., one-way, five section (R,Y,YA,G,GA) black faced adjustable traffic signal head with mast arm mounting	75	mayori.	810	2-conductor electrical tray cable (No. 12 A.W.G.).				
			hardware and tunnel visors.	140	and the second	810	5-conductor electrical cable (No. 14 A.W.G.).			
· ·	EA	814	12 in./8 in., one-way, five section (12 in. YA,GA/8 in., R,Y,G) black faced adjustable signal head with post top mounting hardware and tunnel visors.	475	Edu.	810	7-conductor electrical cable (No. 14 A.W.G.).			
2	ΕA	814		5	Annual Property of the Parket	810	3-wire (No. 4 A.W.G.) electrical cable.			
2	EA	014	8 in., one-way, two section (R,R) black faced adjustable traffic signal head with mast arm mounting hardware and tunnel visors.	125	I.du	804	Bare copper stranded ground wire (No. 6 A.W.G.).			
1	EA	813	36 in. x 42 in. R 10-12 sign for mast arm mounting.	35	teriari teriari	805	1 in. liquid tight flexible non-metalic conduit for loop detector sleeve.			
3	EA	813	48 in. x 48 in. W 3-3 "NEW" sign for ground mounting.	715	San Andrews	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.			
1	EA	813	16 in. x Var. D-3(1) DualFaced sign for under mast arm mounting.	150	week.	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.			
2	EA	813	30 in. x 30 in. R 5-1 sign for ground mounting.	40	4	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.			
1	EA	813	51 in. x 30 in. Associated Shield Assembly sign for pole mounting.	125	La.	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.			
2	EA	813	51 in. x 30 in. Associated Shield Assembly sign for ground mounting	50	A Newson	805	3 in, polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.			
1	EA	806	250 W HPS lamp and luminaire.	20	duples series	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.			
1 E	EA	806	15 ft. luminaire arm.	6.60	CY	805	Concrete foundation for traffic signal equipment.			
				3	EA	801	Ground rod $-\frac{3}{4}$ in. diameter x 10 ft. length.			
				4	£A	804	Control and distribution equipment (120/240 V, one phase, three wire system) for a type B-5 underground electrical service.			
				50	hadan manad	556	24 in. wide HAPPTPM - white for stop line.			
				25		812	4 in. x 4 in. wood sign support.			
				170	To have	812	4 in. x 6 in. wood sign support.			

As-built for S.H.A. [on CADD].

CONTACT LIST

The contact persons for District #5 are as follows:

Mr. Paul D. Armstrong District Engineer 410-841-5450

Mr. Larry Elliott Assistant District Engineer - Traffic 410-841-1003

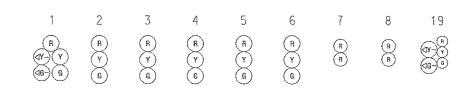
Mr. John Mays Assistant District Engineer - Utility 410-841-5450 Ext.30

Mr. Charles George Assistant District Engineer - Maintenance 410-841-5461

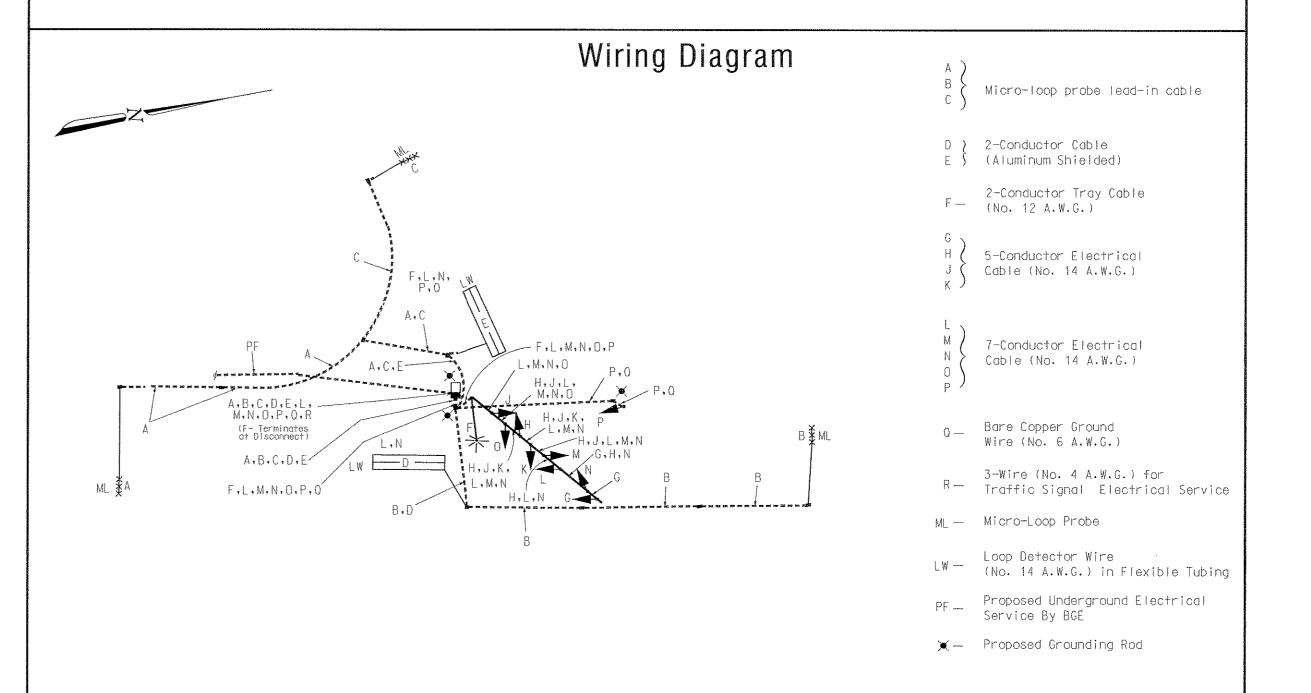
Mr. Richard L. Daff Chief, Traffic Operations Division 410-787-7630

The Power Company Representative is: 7317 Parkway Drive South Hanover, Maryland 21076 1-410-859-9030

Phase Chart



Phase 1 & 6	G - ⊸ -G	G	R	R	R	R	R	R	G - 4 -G−	
1 Change	G ∢ Y—	G	Ŕ	R	R	R	R	R	G ⊸ Y—	▶
Phase 2 & 6	G	G	G	G	R	R	R	R	G	←
2 & 6 Change	Y	Y	Y	Υ	R	R	R	R	Υ	>
Phase 4 & 8	R	R	R	R	G	G	FL/R	FL/R	R	
4 & 8 Change	R	R	R	R	Y	Υ	R	R	R	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/Y	4





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ASST	. CHIEF	TRAFFIC	ENGINEERING	DESIGN	DI

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

(General Information Plan)

MD 256 (Deale Rd./ Churchton Rd.) at MD 258 (Bay Front Rd.)

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, TRAFFIC & SAFETY

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DRAWN BY: <u>Frank Hoeckel</u>	F.A.P. NO.	N/A	TS NO.	
CHECKED BY: (7'/00	S.H.A. NO.	BW996M82	4021-GI	SHEET NO.
SCALE: N/A	COUNTY:	Anne Arundel	T.I.M.S. NO.	SOFT THE SALE OF THE SALE
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